

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Currently Amended) ~~The adjustable bed of claim 1 comprising:~~ An adjustable bed comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform; and

a side-member lift mechanism adapted to raise the side member relative to the platform surface, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state, and

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism.

3. (Currently Amended) The adjustable bed of claim ~~[[1]]~~ 2, wherein the flex mechanism forms the flexion position so that an upper leg of a bed user lying on the platform surface is tilted at an angle in a range of 10 degrees to 60 degrees inclusive at a time of the knee break.

4. (Previously Presented) The adjustable bed of claim 3, wherein the flex mechanism forms the flexion position so that the upper leg is tilted at an angle in a range of 20 degrees to 40 degrees inclusive at a time of the knee break.

5. (Previously Presented) The adjustable bed of claim 3, wherein the tilt mechanism is operable after the flexion position is formed by the flex mechanism.

6. (Currently Amended) The adjustable bed of claim [[1]] 2 comprising:
a side member disposed on either side of the platform, wherein
the tilt mechanism includes an elevation mechanism adapted to elevate the pair of side members up and down, and
the platform surface is tilted and the side member at a lower end thereof is raised relative to the platform surface, by elevating at least one side of the platform surface using the elevation mechanism.

7. (Previously Presented) The adjustable bed of claim 6, wherein
the platform is supported from underneath by an adjustable stage that oscillates on a fixed stage,
the adjustable bed comprises:
a load detection unit disposed between the fixed stage and at least one of the side members; and
a tilt-mechanism control unit adapted to control a driving of the tilt mechanism based on a detection signal outputted from the load detection unit, and

the tilt-mechanism control unit maintains the driving of the tilt mechanism in an OFF-state when the detection signal received from the load detection unit shows that a load of at least a predetermined value is on the at least one side member.

8. (Previously Presented) The adjustable bed of claim 6, wherein
the platform is formed from a plurality of surface members supported from underneath by an adjustable stage that oscillates on a fixed stage,
the flex mechanism has an actuator disposed on an underside of the platform and adapted to flex the platform by tilting one or more of the surface members,
the tilt mechanism has a first and a second elevation mechanism capable of elevating both sides of the adjustable stage independently, and
the flex and tilt mechanisms are independently operable.

9. (Previously Presented) The adjustable bed of claim 8 comprising a synchronized operation unit adapted, at an operation time of the first and second elevation mechanisms, to operate the first and second elevation mechanisms in synchronization so as to elevate the platform while maintaining the platform in a horizontal position.

10. (Previously Presented) The adjustable bed of claim 8, wherein
the platform is a coupled platform formed from the surface members being coupled together,
the flex mechanism drives the actuator, which is disposed on the underside of the coupled platform, to flex the coupled platform,

the first and second elevation mechanisms each include a parallelogram mechanism adapted to elevate sides of the adjustable stage in a perpendicular direction using (i) a plurality of support arms that hang down parallel with one another from the respective side of the adjustable stage so as to extend in line with the side, (ii) a horizontal link arm disposed with respect to the support arms so as to extend in line with a flat surface of the bed, and (iii) a slide groove member disposed horizontally and connected to a lower end of the support arms so as to allow the support arms to travel freely, and

the platform surface is tilted by separating one side of the adjustable stage and the respective horizontal link arm using another actuator, to lift the side.

11. (Previously Presented) The adjustable bed of claim 10, wherein

the adjustable stage is (i) disposed on the fixed stage via a roller that rotates in a width direction of the platform, and (ii) has a mechanism adapted to tilt the platform surface while running the roller over the fixed stage when at least one of the parallelogram mechanisms is operated, and

the roller includes a viscosity-generating unit adapted to control the roller to rotate smoothly when running over the fixed stage.

12. (Previously Presented) The adjustable bed of claim 10 comprising:

a slide-roller mechanism disposed on the coupled platform between the adjustable stage and a region corresponding to a foot of the adjustable bed, wherein

the coupled platform and the adjustable stage are prevented from separating when the bed is driven, by a roller disposed on the coupled platform traveling in a slide groove provided in the adjustable stage.

Claims 13-14 (Cancelled)

15. (Currently Amended) A mattress for use with an adjustable bed ~~as in any of~~ claims 1 to 12, wherein comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform; and

a side-member lift mechanism adapted to raise the side member relative to the platform surface, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state,

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism, and

mattress parts whose position corresponds respectively to the platform and the side member are made from a different material.

16. (Currently Amended) A mattress for use with an adjustable bed ~~as in any of~~ claims 1 to 12, wherein comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform; and

a side-member lift mechanism adapted to raise the side member relative to the platform surface, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state,

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism, and

a slit is provided at a position corresponding to a boundary between the platform and the side member.

17. (Currently Amended) A mattress for an adjustable bed ~~as in any of claims 1 to 12,~~ wherein comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform; and

a side-member lift mechanism adapted to raise the side member relative to the platform surface, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state,

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism, and

an alignment mark for [[a]] the bed user to lie on the mattress is formed on a mattress surface.

18. (Currently Amended) A mattress for an adjustable bed ~~as in any of claims 1 to 12,~~ wherein comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform; and

a side-member lift mechanism adapted to raise the side member relative to the platform surface, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state,

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism, and

a fixed implement is provided on a mattress surface facing the side member, so as to mate the mattress with the side member when the side-member lift mechanism is driven to raise the side member.

19. (Currently Amended) A body-position fitting for use by a bed user of an adjustable bed ~~as in any of claims 1 to 12~~, comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform;

a side-member lift mechanism adapted to raise the side member relative to the platform surface; and

a holding unit adapted to hold the bed user in a posture with hands corresponding to an abdominal region of the bed user, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state, and

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism.

20. (Currently Amended) A decubitus-ulcer prevention fitting for use by a bed user of an adjustable bed ~~as in any of claims 1 to 12~~, comprising:

a platform having a flexible surface;

a flex mechanism adapted to flex the platform to form a flexion position that includes at least one of a sitting-up position and a knee break;

a tilt mechanism adapted to laterally tilt the platform surface corresponding to an area from an upper body to a lower leg of a bed user lying on the platform surface;

a side member disposed on at least one side of the platform;

a side-member lift mechanism adapted to raise the side member relative to the platform surface; and

a cushioning unit adapted to be interposed between legs of the bed user, wherein

the flex and tilt mechanisms are both operable with the other mechanism in an operational state, and

the tilt mechanism tilts the platform surface toward the side member raised by the side-member lift mechanism.

21. (Previously Presented) A sequence for adjusting an adjustable bed that includes a platform having a flexible surface, a flex mechanism adapted to flex the platform to form a flexion position which includes at least one of a sitting-up position and a knee break, a side member disposed on a side of the platform, a side-member lift mechanism adapted to raise the

side member relative to the platform surface, and a tilt mechanism adapted to tilt the platform surface laterally, comprising:

- a first step of operating the flex mechanism;
- a second step of operating the side-member lift mechanism after the first step; and
- a third step of operating the tilt mechanism after the second step.

22. (Previously Presented) A sequence for adjusting an adjustable bed that includes a platform having a flexible surface, a flex mechanism adapted to flex the platform to form a flexion position which includes at least one of a sitting-up position and a knee break, a side member disposed on a side of the platform, a side-member lift mechanism adapted to raise the side member relative to the platform surface, and a tilt mechanism adapted to tilt the platform surface laterally, comprising:

- a side-member lift step of raising the side member to a predetermined angle at a drive time of the side-member lift mechanism;
- a tilt step of operating the tilt mechanism after the side-member lift step; and
- a release control step of performing a release control after the tilt step, by lowering the side member from the predetermined angle to an obtuse angle.

23. (Previously Presented) A sequence for adjusting an adjustable bed that includes a platform having a flexible surface, a flex mechanism adapted to flex the platform to form a flexion position which includes at least one of a sitting-up position and a knee break, a side member disposed on a side of the platform, a side-member lift mechanism adapted to raise the side member relative to the platform surface, and a tilt mechanism adapted to tilt the platform

surface laterally, the side-member lift mechanism and the tilt mechanism being driven independently of each other comprising the step of:

driving the bed while synchronizing (i) a rate of change of an angle at which the platform is tilted by the tilt mechanism relative to a horizontal surface, and (ii) a rate of change of an angle at which the side member is tilted by the side-member lift mechanism relative to the platform.